11-CV-00037-RESP (PG-78-117)

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Storm Sentinels from Enware Australia prevent oil an entering drains and sewers

by Enware Australia

Email

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www.enware.com.au

Infolink Special Feature Summer 2010/11

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Enware Safe-Equip, a division of Enware Australia, introduces a new drain protection insert to help companies comply with stormwater pollution containment and prevention plans and best management practices.

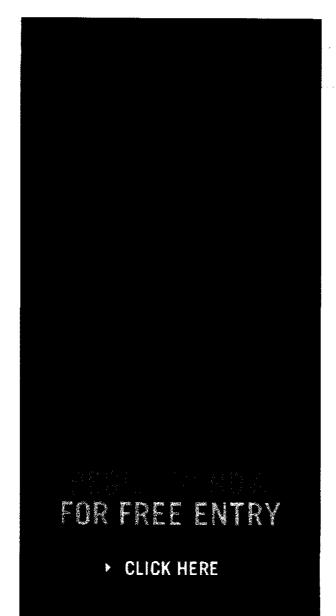
The Storm Sentinel is an adjustable catch basin insert that protects storm drains and catch basins by capturing oil and sediment before it finds its way into pipelines on industrial, commercial and municipal sites.

Storm Sentinel drain protection insert is supplied with an oilabsorbent media in a screened bag, and also guards against potential discharge on construction sites, parking areas and drive-up retail facilities.

The drain protection insert can handle up to 8870 litres a minute overflow rate to help prevent ponding, and the drain insert will not fall into the basin even if fully loaded. The Storm Sentinel drain protection insert requires no special tools to install and will fit any size rectangular catch basin up to 61x91cm and round basins up to 61x66cm. Drain protection inserts are available in customisable sizes.

Storm Sentinel drain protection inserts are part of Safe-Equip's comprehensive range of spill containment and dispensing solutions, including environmental and worker protection products, bunding and racking systems, multiple drum spill pallets and workstations, bulk container systems, portable spill containment berms, salvage drums and emergency response equipment including customised spill kits, Ze eyewash and decontamination solutions.

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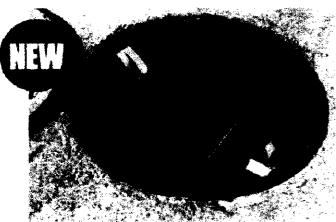
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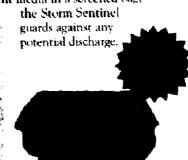
Which has then resulted in what Enpac now calls the "Storm Drain Defender" "Enpac Insert" "Storm Sentinel" this is a current derivative of the Sea Life Saver liner scientifically intended for healthy usage only within a supporting structure. see Exhibit "J" 

#### 

# STORM SENTINEL™ ADJUSTABLE CATCH BASIN INSERT

The Storm Sentinel Drain Protection Inserts help companies comply with Stormwater Pollution Prevention Plans and Stormwater Best Management Practices by protecting your storm drains and catch basins. It's the sure way to catch oil and sediment headed into storm drains and sewers. Equipped with an oil-absorbent media in a screened bag.





ENPAC's enhanced design his dramatically increased the surface area for greater sediment retention while decreasing the depth of the unit in the catch basin.

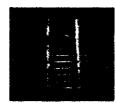
- 1341 & 1344 fit any size rectangular catch basin's from 16"x20" to 28"x36". XI, version fits rectangular catch basin's up to 42"x42".
- 1348 & 1343 fit any size round earth basin's from 27" to 29" in diameter. Custom sizes available.
- Up to 500 GPM overflow rate helps avoid ponding.
- · Requires no special rools to install
- Helps comply with NPDES, 40 CFR 122.26 when used as Best Management Practice in Storm Water Pollution Prevention Plans.



**TO INSTALL:** Remove grate and adjust wire frame to bt in recess.



Place insert into recess and frame into corners. Replace metal grase.



No part of the insert extends above the surface.



To MESSIE Simply lift the grate, grab the handle and pull out the insert



# STORM SENTINELTM ANDSTABLE CURB INLET HISERT

ENPAC's\* new Storm Sentinel\* Adjustable Curb Inlet Insert was designed and engineered to perform to the same demanding test requirements as our award winning Catch Basin Insert's above. You can now have the same high quality inserts for Curb Inlet situations. Adjustable to fit curb inlet openings from 24" to 30" wide.

Insert won't fall into the basin, even when fully loaded. Dispose of the used insert according to company policy and all applicable laws and regulations.

#### RREAT FOR BOLE HE

- Industrial facilities
- Construction sites
- · Parking lots
- Drive-up retail facilities

Installation and removal only takes one person, competitive units requires two+ persons to complete the job. One person job!

U.S. Patent No. 7,201,843

Parties No. 1340-70 Designates - Third & Dalesti

Parker No. 180

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Product Nat. 1341

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PRODUCT DOCUMENTS Instruction, Reglations & More.



Stormwater Best Management Practices by protecting y storm drains and catch basins. It's the sure way to catch and sediment headed into storm drains and sewers. Equipped with an oil-absorbent media in a screened back Storm Sentinel guards against any potential discharge.

ENPAC's enhanced design has dramatically increased t surface area for greater sediment retention while decreated the depth of the unit in the catch basin.

1341 & 1344 fit any size rectangular catch basin's from 16"x20" to 28"x36". XL version fits rectangulated basin's up to 42"x42".

1340 & 1343 fit any size round catch basin's from 27" to 29" in diameter. Custom sizes available.

Up to 500 GPM overflow rate helps avoid ponding Requires no special tools to install.

Helps comply with NPDES, 40 CFR 122.26 when used as Best Management Practice in Storm Water Pollution Prevention Plans.

**TO INSTALL:** Remove grate and adjust wire frame to fi recess. Place insert into recess and frame into corners. Replace metal grate.

**TO REMOVE:** Simply lift the grate, grab the handle and out the insert. No part of the insert extends above the surface.

#### Round, 27 to 29"

Product No.: 1340-TD Description: Trash & Debris

Weight: 2 lbs. / 1kg

Product No.: 1340

Description: Trash, Sediment, Debris

Weight: 2 lbs. / 1 kg

Product No.: 1343

Description: Trash, Sediment, Debris, Oils, Hydrocarbor

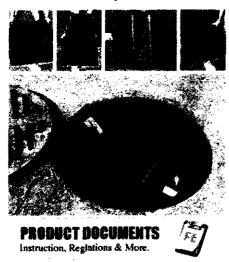
Weight: 3 lbs / 1.4 kg

Rectangular, 16x20" to 28x36"

#### Stormwater

Storm Sentinel Adjustable Catch Basin Insert™
Storn Sentinel Adjustable Curb Inlet Insert™

#### Storm Sentinel Adjustable Catch Basin Insert™





# ENVIROMET 3:000-590-2436 to Occor



### Storm Drain Defender

- The Storm Drain Defender is a simple sheet of geotextile fabric supported by a wire frame, rectanglular or round models both adjust to fit a variety of drain sizes. The entire unit is under the grate, excess fabric nα extends above the grate, creating a safer enviroment pedestians. No triming required.
- The Storm Drain Defender is an inexpensive, easy to use Best Management Practice (BMP), a vital part of any Storm Water Pollution Prevention Plan.
- The first step to comply with the stringent EPA standards.

Back to Index

#### **Catch Basin Insert**

A Catch Basin Insert is a temporary device that fits into a storm drain to effectively improve the water quality of our Lakes, Streams, and Oceans. Our catch basin insert goes into many sizes of catch basin that include a grate or curb inlet where storm water enters the catch basin and a sump captures sediment, debris and associated pollutants. They are also used in combined sewer watersheds to capture floatable and settle some solids. Catch basins operate as precaution to reduce the amount of pollutants that enter the water way. The Storm Drain Defender Catch Basin Insert is constructed of 8 ounce geotextile fabric that is held in place under the basin grate utilizing a simple wire frame. The wire frame is adjustable to expand or reduce to fit a wide variety of sizes. Both rectangular and round models are available. Regular maintenance is required to preserve the quality and effectiveness of the Catch Basin Insert. The Catch Basin Insert used property and maintained will drastically reduce the amount of pollutants that enter the storm water system including sediment, oil, heavy metals, trash and debris. The Catch Basin Inserts offered by Spill-Kit are easier to use than those of its competitors. The wire frame allows for easy installation and removal.

Spill-Kit has been one of the pioneers in the field of Catch basin insert. The company has gained a list of loyal customers for its excellent enduring services. Along with service, Spill Kit offers consultation and guidance to its customers to let them choose the best. The customer service desk works hard to offer assistance. Such prompt service has resulted in taking Spill-Kit to the higher level and a better position and name over the years. We offer several sizes and configurations in standard dimensions that fit into a wide range of existing vaults and structures. We also design catch basins for new sites customized to your specifications.

	The Storm Drain Defender					
Product #	DDSED-RND	DDSED-REC	DDREC-WPIL10	DDRND-WPIL10		
Decription	Round Drain Insert	Rectangle Drain Insert	Rectangle w/ Pillow	Round w/ Pillow		
Weight	2lbs	2lbs	4lbs	4lbs_		
Dimensions	Smallest 27" Diameter Largest 29" Diameter	Smallest 16" x 20" Largest 28" x 36"	Smallest 16" x 20" Largest 28" x 36"	Smallest 27" Diameter Largest 29" Diameter		
Price	\$54.00	\$54.00	\$64.00	\$64.00		

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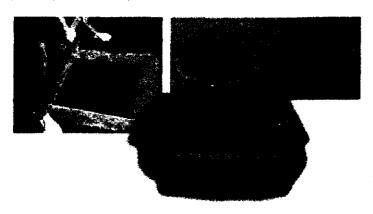
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Saving The World One Drain At a Time!

Storm water runoff carries with it dirt and hydrocarbons that pollute our downstream supplies. The Storm Drain Defender traps these pollutants, reducing and controlling entrance of contaminants into our water systems.



http://spill-kit.com/ 7/20/2010

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Catch Basin Insert, 300 Gallons per Minute Flow Capacity, Adjustable to Fit 16 x 20 Inch to 24 x 36 Inch Drains, Height 22 Inches, 1 Gallon Sorbed Capacity, Material Non-Woven Geotextile, Color Black \_

3BU44 Grainger Item # Price (ea.) \$106.65 Brand ENPAC Mfr. Model # 1344 Ship Qty. 🖸 Sell Qty. (Will-Call) 2 1 Ship Weight (lbs.) 2.25 Usually Ships\*\* 🗓 Today Catalog Page No. 2356 🕮

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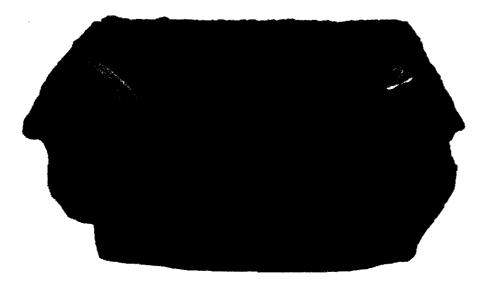
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Catch Basin Insert Applications: Oil/Sediment

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by Enpac

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#### **Product Specifications**

Part Number: 1344
Item Package Quantity: 1

#### Technical Details

- Package Quantity: (1) PieceType: Basin Insert w/Sock
- . Applications: Sediment & Oil
- Shape: Rectangular
- Fits Drain Size (Inch): 16x20 24x36

#### **Product Description**

**Product Description** 

Storm Sentinel Adjustable Catch Basin Inserts Type: Basin Insert w/Sock Applications: Sediment & Oil



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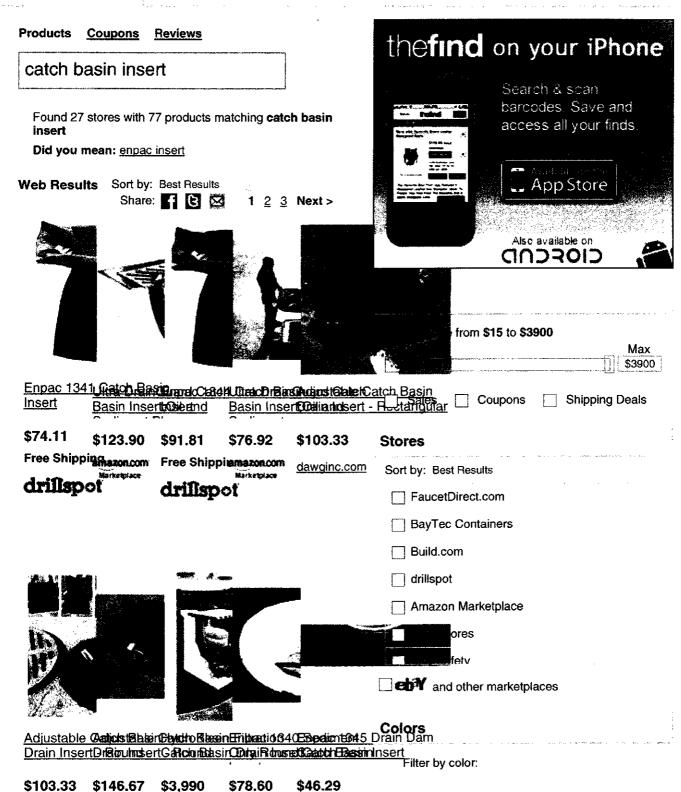
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#### **Enpac Storm Sentinel™**

by Enpac Llc

#### Overview

• 300 GPM overflow rate helps avoid ponding.

#### **Product Description**

The Storm Sentinel Insert is the sure way to catch oil and sedir sewers. Equipped with an oil-absorbent media in a screened be against any potential discharge. Fits any size rectangular catch basins up to  $24 \times 26$ ". Custom sizes are available. Helps comple (1999) when used as Best Management Practice in Storm Wate tools to install. FOB Shipping Point.

#### Ask a question about this product

Availability: In stock.

	ENPAC STORM SENTINEL™					
Product No.	Description	Size W x L x H				
H1340	Sediment only, Round	24 x 9 x 23"	Re <b>Spec</b> i			
H1341	Sediment only, Rectangle	24 x 9 x 23"	Re <b>Spec</b> i			
H1343	Sediment and oil, Round	24 x 9 x 23"	Re <b>Spec</b> i			
<u>H1344</u>	Sediment and oil, Rectangle	24 x 9 x 23"	Re <b>Spec</b> i			



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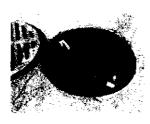


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#### **ENPAC® STORM Sentinel Adjustable Catch Basin Insert,** Sediment Only, Black, Pkg. of 1

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Use Adjustable Catch Basin Insert to Trap Stormwater Pollutants in Round Drains

Adjustable Catch Basin Insert has a self-supporting wire frame adjusts to fit round drains from 27–29"-dia. Entire unit fits under the grate with no excess fabric above for a safer pedestrian environment. No trimming required. Overflow outlets allow excessive water from heavy rain showers to bypass the system, reducing flooding or ponding. Maximum overflow rate is up to 300 gpm. Adjustable Catch Basin Insert is manufactured from 8-oz. polypropylene, nonwoven geotextile. Sediment Only. Black. Pkg. of

Compliance: Helps comply with NPDES, EPA 40 CFR 122.26 stormwater regulations.

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Qty	Item #	Product	Pack	Avail	Price
0	108548	ENPAC STORM Sentinel Adjustable Catch Basin Inserts	EA	0	\$59.50

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**ENPAC STORM Sentinel Rectangular Adjustable Catch** Basin Insert Sediment Only, 16" x 20" to 24" x 34"-dia. drains

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#### EMPAC

- Sentinel Rectangular Adjustable Catch Basin Insert Sediment Only. 16" x 20" to 24" x 34"-dia. drains
- Reduces and controls contaminants entering water systems—trapping stormwater pollutants
- Black color
- Inexpensive and easy to use

#### Sentinel Adjustable Rectangular Catch Basin Insert

Sediment Only with self-supporting wire frames adjust to fit a variety of rectangular drains. Entire unit is under the grate with no excess fabric above for a safer pedestrian environment. No trimming required. Overflow outlets allow excessive water from heavy rain showers to bypass the system, reducing flooding or ponding. Maximum overflow rate is up to 300 gpm.

Manufactured from 8-oz. polypropylene, nonwoven geotextile. 16" x 20" to 24" x 34" dia. drains. Black color. No. 108548 also available.

Compliance: Help comply with NPDES, EPA 40 CFR 122.26 stormwater regulations.

				Click	-
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Qty	item #	Product	Pack	Avail	Price
Ω	108549	ENPAC STORM Sentinel Rectangular Adjustable	EA	•	\$60.10
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		34"-dia. drains			

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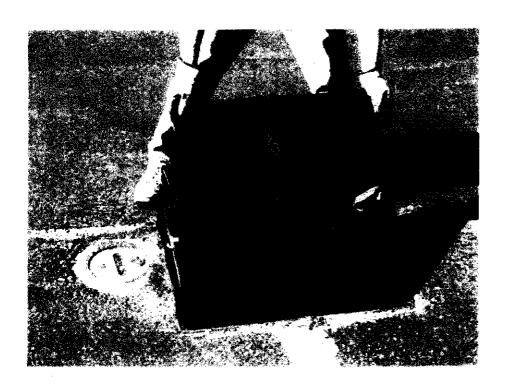
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- FLT807 one activated carbon filter
- FLT808 for hydrocarbons
- o FLT809
- for phosphorous
  O FLT810
  for heavy metal



# Storm Sentinel™ Drain Protection Insert

- O FLT704 fits 27" to 29" dia. drains
- FLT706 fits drains 16" x 24" to 24" x 34"



# Storm Sentinel™ Drain Protection Insert with Imbiber Beads™

- o FLT705 fits 27" to 29" drains
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After many years of theory, field analysis, data, invented programs, research and conclusion, the Sea Life Saver Liner was officially invented in order to collect, capture, contain and filter the containments found in stormwater discharge. As a trained chemical processor and specialist at moon suite levels a catch basin insert was invented by Dr. Chassidy F. Lucas for her designed liner. The "cage / basket" was invented in order to keep the "structure" of the filtering liner allowing any stormwater that fills the liner, in the filtration process, to filter the water containing any particulates and slowly release it. This way the water is CAPABLE to continue the filtration process instead of spilling therefore to NOT cause and contribute uncontrolled pollution to enter our water ways. See the Sea Life Saver catch basin insert patent no. 7,771,591 exhibit "K". 

# (12) United States Patent Lucas

(10) Patent No.: (45) Date of Patent:

US 7,771,591 B2

Patent: Aug. 10, 2010

## (54) FILTER SYSTEM FOR CATCH BASINS

(76) Inventor: Chassidy Lucas, 18517 71st Ave. Court East, Puyallup, WA (US) 98375-2355

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 6 days.

(21) Appl. No.: 11/977,226

(22) Filed: Oct. 23, 2007

(65) Prior Publication Data

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(51) Int. Cl. E03F 5/06 (2006.01)

(52) U.S. Cl. ...... 210/163; 210/337; 210/339; 210/455; 210/474; 210/489; 404/4

See application file for complete search history.

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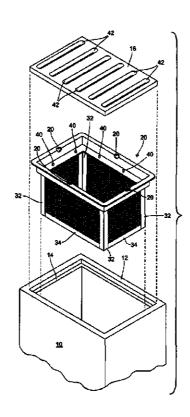
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Primary Examiner—Christopher Upton (74) Attorney, Agent, or Firm—Floyd E. Ivey

#### (57) ABSTRACT

A first filter basket (20) sits down into a catch basin (10) and has an upper flange (24) that rests on a shoulder (14) provided in the catch basin (10) for supporting a grate (16). The filter basket (20) has expanded metal side and bottom walls which are adapted to pass liquid and catch particulate material larger in size than the wall openings. A geo-textile liner (42) is optionally positioned inside of the filter basket (20). The liner (42) is supported on a lower rim flange (26). Posts (40) on the rim flange (26) extend upwardly through openings (66) in marginal portions of the liner (42). A smaller second filter basket (72) is optionally supported inside the larger first filter basket (20). An absorbent pillow (90) may be positioned between the bottoms of the two filter baskets (20, 72) to catch and absorb oils and greases that are in the liquid that enters the catch basin (10).

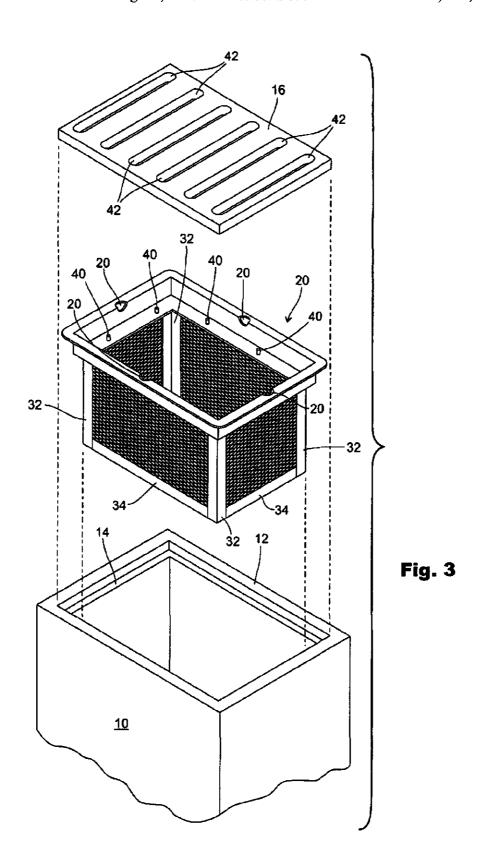
#### 21 Claims, 9 Drawing Sheets



U.S. Patent Aug. 10, 2010 Sheet 1 of 9 US 7,771,591 B2 42 Fig. 1 <u>10</u> (PRIOR ART) -16 Fig. 2 (PRIOR ART)

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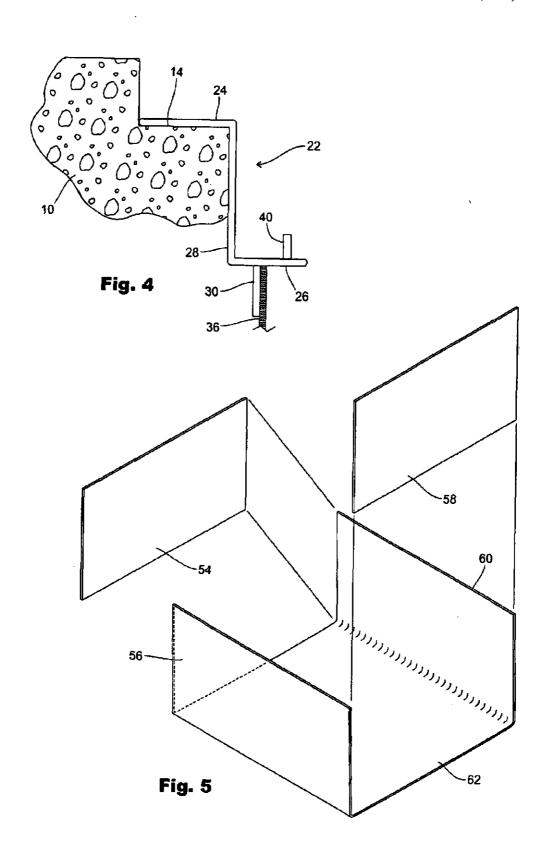
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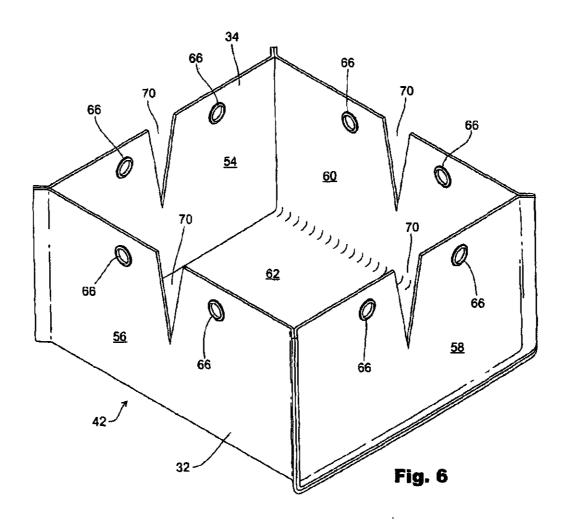
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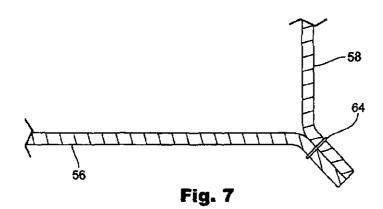
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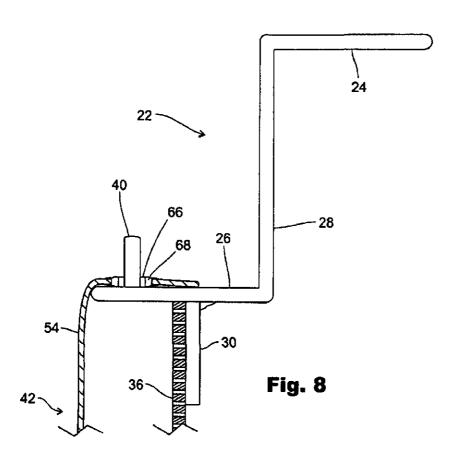




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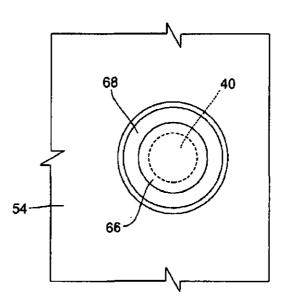
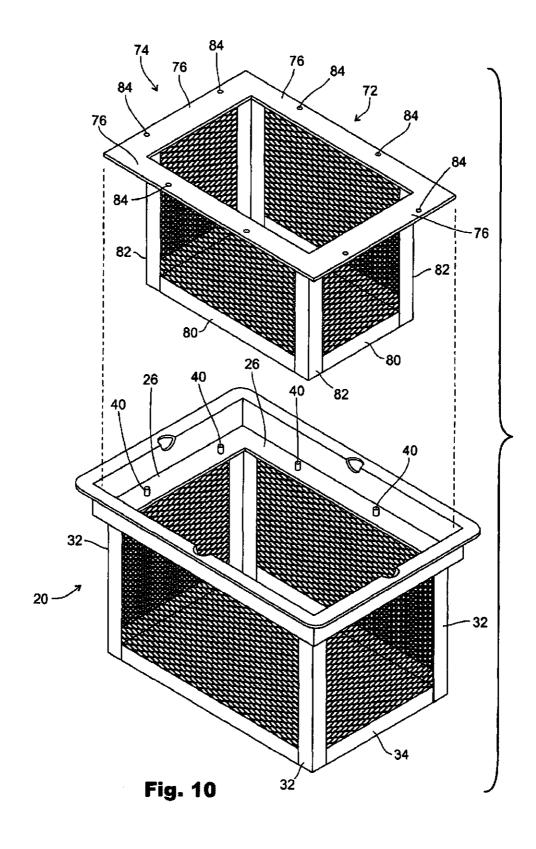


Fig. 9

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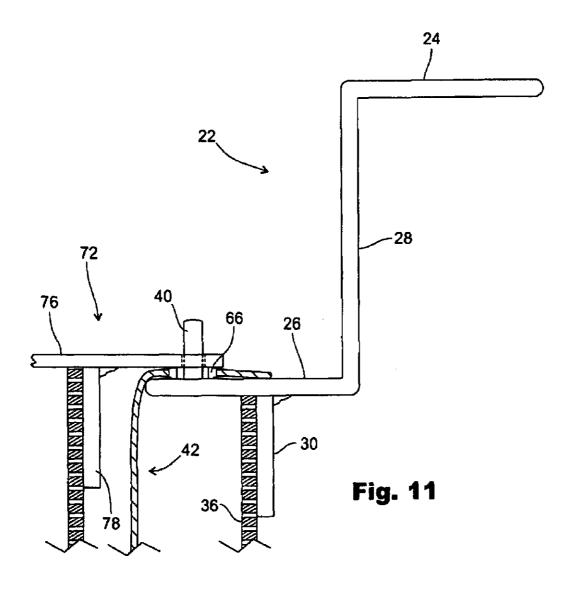
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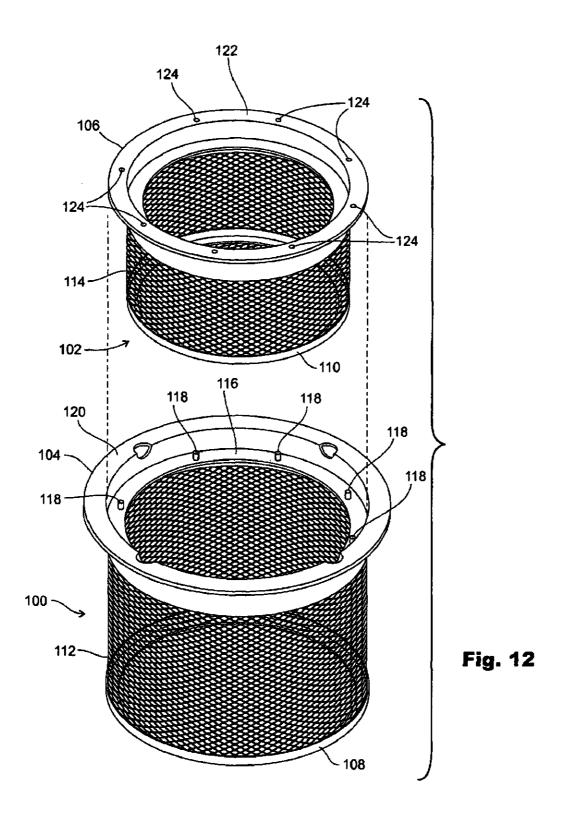
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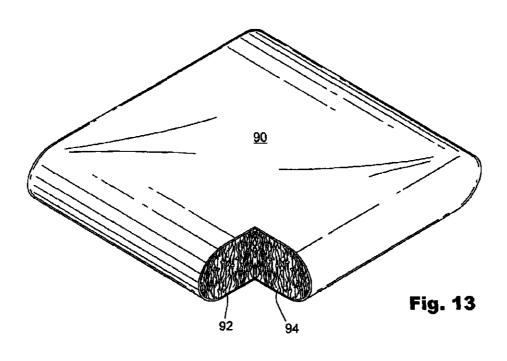


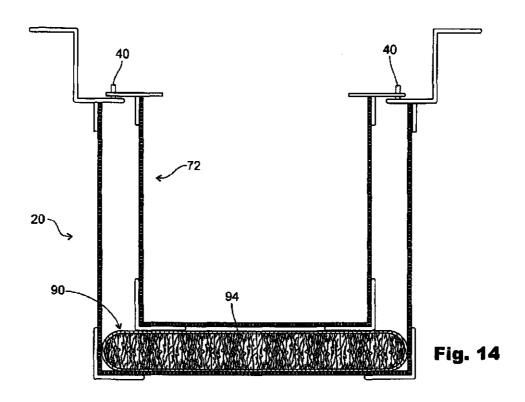
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#### US 7,771,591 B2

#### FILTER SYSTEM FOR CATCH BASINS

#### TECHNICAL FIELD

The present invention relates to catch basins used in drainage systems. More particularly, it relates to a filter system for removing debris and contaminants, including oil and grease from the drain water so that they will not enter the system of drainage pipes to which the catch basins are connected.

#### BACKGROUND OF THE INVENTION

It is common to collect drainage water by use of a system of catch basins which are buried in the ground and are connected to a network of drain pipe. A problem is that the 15 drainage water often includes debris and contaminants, and sometimes oil and grease. It is not desirable for these contaminants to get into the drain water which is expect to eventually reenter the earth's rivers, etc. which include fish, etc. There is a need for an effective and economic system for removing the debris and contaminants from the drainage water. The main object of this invention is to fill this need by providing a filter system installable into the catch basins for catching the debris and contaminants and removing them from the drainage water. It is a further object of the present 25 invention to provide such a filter system which is easy to install, remove and maintain.

#### BRIEF SUMMARY OF THE INVENTION

A typical catch basin has side and bottom walls, a top opening and a grate which extends over the top opening. The catch basin is buried and the grate is substantially flush with the surface surrounding the catch basin. Lower interior regions of the catch basins are connected to drainage pipes which form a drainage pipe network. The filter system of the present invention includes a filter basket having horizontal and vertical frame members and pervious side and bottom walls that are secured to the frame members. An outwardly directed upper flange is adapted to set down onto the grate supporting shoulder of the catch basin when the filter basket is inside the catch basin. An inwardly directed lower flange is spaced below the upper flange, and a vertical wall extends between the upper and lower flanges. The lower flange includes vertically upwardly extending posts spaced laterally 45 from the vertical wall.

Another aspect of the invention is the provision of a filter member that is smaller than the filter basket. The filter member is positioned inside the filter basket and has side and bottom walls. The sidewalls include upper rim portions which include openings for receiving the posts on the lower flange of the filter basket. Preferably, the filter member is made from a fabric material that is adapted to absorb small particles.

In preferred form, one, some or all of the sidewalls of the filter member include a cutaway that extends from an upper 55 edge of the sidewall downwardly into the sidewall. In preferred form, all four of the sidewalls of the filter member have these cutouts. In some embodiments, the upper rim portion of the filter member includes four side parts, one for each sidewall of the filter member. Two openings are provided in each 60 side part of the rim portion. The lower flange of the filter basket includes a post for each said opening.

According to another aspect of the invention, a second filter basket is provided and is sized to sit down into the first filter basket. The second filter basket has side and bottom walls that 65 are spaced inwardly and upwardly from the side and bottom walls of the first filter basket. The second filter basket has a

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flange at its upper end that includes openings into which the mounting posts are received when the second filter basket is in the first filter basket. When the second filter basket is inside the first filter basket, spaces exist horizontally between the sidewalls of the first and second filter baskets and vertically between the bottoms of the first and second filter baskets.

According to yet another aspect of the invention, an absorbent filter pillow is positioned inside the first filter basket between the bottom of the first filter basket and the bottom of the second filter basket. This absorbent filter pillow includes a pervious cover or casing and oil-absorbing filler material inside the cover or casing.

Preferably, the side and bottom walls of the filter baskets are constructed from expanded metal. In some embodiments, the filter basket has four quadrate sides and a quadrate bottom. In other embodiments, the filter basket has a cylindrical sidewall, a circular bottom wall, and a top flange in the form of a circular ring.

Other objects, advantages and features of the invention will become apparent from the description of the preferred embodiments set forth below, from the drawings, from the claims and from the principles that are embodied in the specific structures that are illustrated and described.

## BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

Like reference numerals refer to like parts throughout the several views of the drawing, and:

FIG. 1 is a fragmentary pictorial view of a conventional catch basin, with a grate at its top shown spaced vertically above the grate's installed position;

FIG. 2 is a fragmentary sectional view showing an edge portion of the grate sitting down onto a shoulder formed in the main body of the catch basin, such view showing the shoulder supporting an edge portion of the grate;

FIG. 3 is a view like FIG. 1, but showing a filter basket of the present invention positioned between the catch basin and the grate;

FIG. 4 is a view like FIG. 2, but showing an edge portion of the filter basket being supported on the shoulder of the grate;

FIG. 5 is an exploded pictorial view of a three-piece liner in an unassembled condition;

between the upper and lower flanges. The lower flange includes vertically upwardly extending posts spaced laterally 45 liner connected and the liner being adapted to fit into the filter basket;

FIG. 7 is a view showing a corner region of the liner shown by FIG. 6, such view showing a way of connecting the sidewalls of the liner;

FIG. 8 is a fragmentary sectional view taken where a mounting ring on a mounting flange portion of the liner is on a mounting pin carried by a flange that projects laterally inwardly from a rim portion of the filter basket;

FIG. 9 is a fragmentary plan view of the liner flange showing the mounting pin and mounting ring;

FIG. 10 is an exploded pictorial view of the filter basket shown by FIG. 1 and a second smaller filter basket that is adapted to fit inside the first filter basket of FIG. 1;

FIG. 11 is a view like FIG. 8, but showing the smaller filter basket positioned inside the larger filter basket with its supporting flange resting on the supporting flange of the larger filter basket:

FIG. 12 is a view like FIG. 10, but showing filter baskets having a cylindrical shape;

FIG. 13 is a pictorial view of an oil absorbent filter pillow, taken from above and looking down towards the top and two sides where they meet at a corner such view showing the

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foreground corner portion of the pillow cut away and showing the oil absorbing material that is inside the pillow; and

FIG. 14 is a vertical sectional view taken through both baskets and the oil absorbent filter pillow.

#### DETAILED DESCRIPTION OF THE ILLUSTRATED EMBODIMENT

FIGS. 1 and 2 show a conventional catch basin 10 which is typically constructed from concrete and includes closed side 10 and bottom walls and an open top. The top is surrounded by a rim 12 and a shoulder 14 spaced below the rim 12. Shoulder 14 normally receives and supports a grate 16 which is typically constructed from cast iron. FIG. 2 shows an edge portion 18 of the grate 16 resting on the shoulder 14. FIG. 3 shows a 15 filter basket 20 that is adapted to fit down inside the catch basin 10. Filter basket 20 has an upper rim portion 22 comprising an upper flange 24, a lower flange 26 and a vertical wall 28. Actually, upper rim structure 22 has four flanges 24, four flanges 26, and four walls 28. Each flange 24 projects 20 laterally outwardly from its wall 28 and each flange 26 projects laterally inwardly from its wall 28. Flanges 24 and 26 are parallel to each other and perpendicular to the walls 28, as clearly shown by FIG. 4.

In addition to the upper rim structure 22, the basket 20 has 25 horizontal and vertical frame members that are best shown by FIGS. 3, 4 and 8. The frame members include an upper horizontal frame member 30 on each side, vertical frame members 32 at each corner and horizontal frame members 34 extending between the bottom ends of the frame members 32. 30 As shown by FIGS. 4 and 8, the upper horizontal frame members 30 extend vertically and are parallel to walls 28 and are perpendicular to flanges 24, 26. Frame members 32, 34 are preferably lengths of angle iron. The four sides and bottom walls of the basket 20 are preferably constructed from 35 sheets of expanded metal or some other suitable pervious material. These walls 36 are welded to the frame members 30, 32, 34.

The basket 20 is adapted to fit inside the catch basin 10 with its upper flanges 24 resting on the shoulder 14, as shown by 40 FIG. 4. Once the filter basket is inside the catch basin 10, the grate 16 can be installed so that it will sit down onto the flanges 24. The presence of the flanges 24 will raise the grate 16 slightly from the position it occupies on the shoulder 14 when the basket 20 is not inside the catch basin 10.

As shown by FIGS. 3, 4, 8, 10 and 11, the flanges 28 are provided with vertical posts 40. Posts 40 are spaced apart on the lower rim flange 26. By way of typical example, there may be two posts 40 on each rim flange 26. The posts 40 extend vertically and are perpendicular to the flanges 26. The pur- 50 may be smaller, as shown in FIG. 6. pose of the posts 40 is hereinafter described.

When the filter basket 20 is inside the catch basin 10, everything that enters the catch basin 10 through the openings 42 in the grate 16 must first enter the filter basket 20 before going any further in the catch basin 10. As can be easily 55 appreciated, solid materials that are small enough to pass through the grate openings 42 but too large to pass through the openings in the side and bottom walls of the basket 20 are collected in the basket. The openings in the side and bottoms walls of the filter basket 20 are small enough that all but the 60 smallest particulate material is captured in the filter basket 20.

FIGS. 8, 11 and 14 illustrate a nesting filter device comprising at least a larger filter basket (22). Seen in FIGS. 8, 11 and 14 are successive additional filter devices added in addition to the at least a larger filter basket (22). The filter basket 65 20 may be provided with a geo-textile liner for increasing the filtration effectiveness of the system. Referring to FIGS. 5-7,

the liner 42 may be constructed to have four sidewalls 54, 56, 58, 60 and a bottom wall 62. As shown by FIG. 5, the liner 42 may be conveniently constructed from three pieces of the liner material. Two pieces form the sidewalls 54, 58. A third larger piece forms the sidewalls 56, 60 and the bottom 62. As shown by FIG. 5, a piece of the material is cut to the proper size to form sidewalls 56, 60 and bottom 62. The sidewall portions 56, 60 of the material are bent upwardly relative to the rest of the material which forms the bottom 62. Members 54, 58 are suitable sized to close the ends of the U-shaped structure 56, 60, 62. As shown by FIG. 7, at the corners where they meet, the sidewall panels 54, 56, 58, 60 may be brought together and connected by stitching 64 which extends through border portions of the panels 54, 56, 58, 60 at the four corners. A suitable fabric for use in making the liner is a membrane liner that was developed for hazardous waste containment. This material is used in roadways, parking lots, construction compounds, industrial storage areas, embankments, dykes, railways, and ridge abutments, and also as a liner for landfills. PermeaTex is a trademark for a particular geotextile product that is marketed by Northwest Linings & Geotextile Products, Inc., having a business address of 21000 77th Avenue S., Kent, Wash. 98032. There are similar linings made by other manufacturers. For example, Geotextiles TNS Advance Technologies makes woven and non-woven geotextiles. Geotextiles TNS Advance Technologies has a place of business at 681 De Young Rd., Greer, S.C. 29651.

As shown by FIG. 6, the upper margins of the sidewalls 54, 56, 58, 60 are provided with openings 66 which are sized and positioned to receive the posts 40 on the lower rim flange 26 of basket 20. Preferably, the openings 66 are reinforced by metal rings or grommets 68 or some other suitable reinforcing structure. FIG. 9 shows that with the grommet 68 attached to the fabric members 54, 56, 58, 60, around the openings in the fabric, the center openings in the grommets 68 become the pin-receiving openings 66.

Referring to FIG. 6, the upper portions of the liner sidewalls 54, 56, 58, 60 may be cut away at 70, between the openings 66. This provides some adjustability for the upper corner portions of the liner 42, facilitating the installation of the liner 42 inside the basket 20. The cutouts 70 start at the upper edges of the sidewalls 54, 56, 58, 60 and extend downwardly into the sidewalls 54, 56, 58, 60. Their presence facilitates the movement of the liner necessary to register the posts 40 with the openings 66. The cutouts 70 also provide passageways for some of the liquid collected in the liner whenever the pores of the liner become plugged.

The liner height d is a variable. The height d may substantially equal to the height of the inner space of the basket 20 or

When the filter basket 20 is used without a liner 42, it must be periodically removed, emptied and cleaned. When the liner 42 is used, it must be removed and cleaned whenever its pores become clogged.

The filtration system may include a second filter basket 72 that is sized to fit down into the larger first filter basket 20. This is shown by FIGS. 10 and 14. Basket 72 has an upper rim 74 composed of side members 76 which are connected together where they meet at the corners of the basket 72. Filter basket 72 includes upper and lower horizontal frame members 78, 80 and vertical corner frame members 82. Filter basket 72 also includes sidewalls and a bottom constructed from expanded metal or some other suitable pervious mate-

The smaller filter basket 72 is sized to fit down into the larger filter basket 22 with its rim 74 resting on the rim flange 26 and the posts 40 extending through openings in rim 74. The 5

inner basket 72 may be used along with the liner 42 in which case the liner 42 is installed first and then the filter basket 72 is installed (FIG. 11). Or, the absorbent liner 42 may be omitted and an absorbent pillow 90 may be used in its place. As shown by FIG. 13, pillow 90 is similar in construction to 5 a head pillow in that it consists of an outer fabric cover or casing 92 and a filler material 94. As shown by FIG. 14, when the smaller filter basket 72 is inside the larger outer basket 20, a vertical space exists between the bottoms of the two baskets. Preferably, the pillow 90 is adapted to fit in and perhaps fill the 10 ticles. vertical space between the bottoms of the two baskets 20, 72. The filler material 94 may be a material which will catch and absorb oils and greases that are in the drain water. When the system shown by FIG. 14 is used, the debris in the drain water will be captured in the inner basket 72. The drain water will 15 pass through the openings in the sidewalls of the two baskets 72, 20 and move to the bottom of the catch basin 10 where drain pipes are connected. Oils and greases in the drain water will be absorbed by the filter pillow 90. When it comes time to clean the system, it is only necessary to remove the grate 16 20 and pull the inner basket 72 out from inside the outer basket 20. Then, the absorbent pillow 90 can be removed and cleaned or replaced by another filter pillow 90. It may not be necessary to remove the outer basket 20 or, if the sidewalls and/or bottom of the outer basket 20 need to be cleaned, it can be 25 easily removed from the catch basin, cleaned, and then returned. All of these procedures can be quickly and easily performed by a single person.

It is within the scope of the invention to use cylindrical baskets 100, 102 with cylindrical catch basins (not shown). 30 The baskets 100, 102 may include upper rim structures 104, 106, lower rim structures 108, 110 and expanded metal sidewalls 112, 114. The larger basket 100 may include a lower rim flange 116 which includes posts 118. It may also include an upper rim flange 120 which is adapted to sit down onto the 35 grate-supporting shoulder of a cylindrical catch basin. The smaller basket 102 includes an upper rim flange 122 having post-receiving openings 124.

The illustrated embodiments are examples of the present invention and, therefore, are non-limitive. It is to be understood that changes in the particular structure, materials and features of the invention may be made without departing from the spirit and scope of the invention. Therefore, it is my intention that my patent rights not be limited by the particular embodiments that are illustrated and described herein, but 45 rather the invention is to be determined by the following claims, interpreted according to accepted doctrines of patent claim construction.

What is claimed is:

- 1. A filter system for a catch basin that receives water runoff 50 and includes a top inlet surrounded by a shoulder for receiving and supporting a grate, said filter system comprising:
  - a nesting filter system comprising a least one filter device; and
  - the at least one filter device comprising at least a larger 55 filter basket (22) comprising horizontal and vertical frame members and pervious side and bottom walls secured to the frame members, an upper rim including an outwardly directed upper rim flange adopted to set down onto the grate supporting shoulder of the catch basin 60 when the larger filter basket (22) is inside the catch basin, an inwardly directed lower rim flange spaced below the upper flange, and a vertical wall extending between the upper and lower rim flanges; and
  - said lower rim flange including vertically upwardly 65 extending posts spaced laterally from the vertical wall.
  - 2. The nesting filter system of claim 1, further comprising;

the at least one filter device further comprising a liner (42) having four sidewalls (54), (56), (58), (60) and a bottom wall (62) is sized to be positioned inside the larger filter basket (22) and having an upper flange portion which includes openings for receiving the posts on the lower rim flange of the larger filter basket (22), said posts extending through said openings.

- 3. The nesting filter system of claim 2 wherein the liner (42) is made from a fabric material adapted to absorb small particles
- 4. The nesting filter system of claim 2, wherein at least one of the sidewalls of the liner (42) includes a cut away portion that extends from an upper edge of the sidewall downwardly into the sidewall.
- 5. The nesting filter system of claim 4, wherein all four sidewalls of the liner (42) have cutouts extending from upper edges of the walls downwardly into the walls.
- 6. The nesting filter system of claim 5, wherein the upper flange portion of the liner (42) includes four side parts and two openings in each side part, and the lower rim flange of the filter basket includes a post for each said opening.
- 7. The nesting filter system of claim 6, wherein the openings in the upper flange portion of the liner (42) are structurally reinforced by a ring member that surrounds the opening.
  - The nesting filter system of claim 2, further comprising;
     a second filter basket (72) that sits down into the liner (42);
  - the second filter basket (72) has side and bottom walls spaced inwardly and upwardly from the side and bottom walls of the liner (42); said second filter basket (72) having a flange at its upper end that includes openings into which the mounting posts are received when the second filter basket (72) is seated down into the liner (42).
  - 9. The nesting filter system of claim 1 further comprising; a second filter basket (72) that sits down into the at least a larger filter basket (22) and has side and bottom walls spaced inwardly and upwardly from the side and bottom walls of the at least a larger filter basket (22), said second filter basket (72) having a flange at its upper end that includes openings into which the mounting posts are received when the second filter basket (72) is in the at least a larger filter basket (22), whereby when the second basket (72) is inside the at least a larger basket (22) spaces exist horizontally between the sidewalls of the at least a larger filter basket (22) and the second filter basket (72) and vertically between the bottoms of the at least a larger filter basket (22) and the second filter basket (72).
- 10. The nesting filter system of claim 9, further comprising an absorbent filter pillow positioned inside the at least a larger filter basket (22) between the bottom of the at least a larger filter basket (22) and the bottom of the second filter basket (72).
- 11. The nesting filter system of claim 10, wherein the absorbent filter pillow includes a pervious casing and an oil absorbing filler material inside the casing.
- 12. The nesting filter system of claim 1, wherein the at least a larger filter basket (22) has expanded metal side and bottom walls.
- 13. The nesting filter system of claim 1, wherein the at least a larger filter basket (22) has four quadrate sides and each side and the bottom is a quadrate.
- 14. The nesting filter system of claim 13, wherein the at least a larger filter basket (22) has expanded metal side and bottom walls.

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- 15. The nesting filter system of claim 1, wherein the at least a larger filter basket (22) has a cylindrical sidewall and a circular bottom wall, and the top flange is a circular ring.
- 16. The nesting filter system of claim 15, wherein the at least a larger filter basket (22) has expanded metal side and 5 bottom walls.
- 17. A nesting filter system for a catch basin that receives water runoff and includes a top inlet surrounded by a shoulder for receiving and supporting a grate, said filter system comprising:
  - at least a larger filter basket (22) comprising horizontal and vertical frame members and pervious side and bottom walls secured to the frame members, an upper rim including an outwardly directed upper rim flange adopted to set down onto the grate supporting shoulder 15 of the catch basin when the first filter basket is inside the catch basin, an inwardly directed lower rim flange spaced below the upper flange, and a vertical wall extending between the upper and lower rim flanges;
  - larger filter basket (22) and has side and bottom walls spaced inwardly and upwardly from the side and bottom walls of the at least a larger filter basket (22), said second

- filter basket (72) having a flange at its upper end that sits down on the lower rim flange of the at least a larger filter basket (22) when the second filter basket (72) is in the at least a larger filter basket (22); and whereby when the second basket (72) is inside the at least a larger filter basket (22) spaces exist horizontally between the sidewalls of the first and second baskets and vertically between the bottoms of the first and second baskets.
- 18. The nesting filter system of claim 17, further compris-10 ing an absorbent filter pillow positioned inside the first filter basket between the bottom of the first filter basket and the bottom of the second filter basket.
  - 19. The nesting filter system of claim 18, wherein the absorbent filter pillow includes a pervious casing and an oil absorbing filter material inside the casing.
  - 20. The nesting filter system of claim 17, wherein each filter basket has four quadrate sides and each side and the bottom is a quadrate.
- 21. The nesting filter system of claim 17, wherein each a second filter basket (72) that sits down into the at least a 20 filter basket has a cylindrical sidewall and a circular bottom wall, and the top flange is a circular ring.

After the Patent 7,771,591 was administered to Dr. Chassidy F. Lucas Ph.D. on August 10, 2010. Tim Reed and Roni Sasaki were first verbally warned to discontinue the infringement of the "591" liner. Then after receiving a fax by Enpac, on October 30, 2010 Enpac attorney Mr. Randolph E. Digges, III was sent the following notification and design agreement see exhibit "L"